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DECEMBER 1988

# VICTORIAN ENTOMOLOGIST



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News Bulletin of  
The ENTOMOLOGICAL  
SOCIETY of VICTORIA



## The ENTOMOLOGICAL SOCIETY of VICTORIA (Inc.)

### MEMBERSHIP

Any person with an interest in entomology shall be eligible for Ordinary Membership. Members of the Society include professional, amateur and student entomologists, all of whom receive the Society's News Bulletin, the Victorian Entomologist.

### OBJECTIVES

The aims of the Society are :

- (a) to stimulate the scientific study and discussion of all aspects of entomology,
- (b) to gather, disseminate and record knowledge of all identifiable Australian insect species,
- (c) to compile a comprehensive list of all Victorian insect species and
- (d) to bring together in a congenial but scientific atmosphere all persons interested in entomology.

### MEETINGS

The Society's meetings are held at Clunies Ross House, National Science Centre, 191 Royal Parade, Parkville, Victoria, at 8 pm on the third Friday of even months, with the possible exception of the December meeting which may be held earlier. Lectures by guest speakers or members are a feature of many meetings at which there is ample opportunity for informal discussion between members with similar interests. Forums are also conducted by members on their own particular interest so that others may participate in discussions.

### SUBSCRIPTIONS

Ordinary Member .....	\$ 10.00
Country Member .....	\$ 8.00 (100 km + from GPO)
Student Member .....	\$ 5.00
Associate Member .....	\$ 2.00 (no magazine)

No additional fee is payable for overseas posting by surface mail of the News Bulletin. Associate Members, resident at the same address as, and being immediate relatives of an Ordinary Member, do not automatically receive a copy of the Society's publications but in all other respects rank as Ordinary Members.

Cover illustration by W.N.B. Quick.

Cyria imperialis (Fabricius), Banksia Jewel Beetle (Buprestidae).

MINUTES OF THE GENERAL MEETING, 21 OCTOBER 1988

The President, K. Walker, opened the meeting at 8.10 pm.

Apologies: D. Crosby

Present: M. Blosfelds, M. Braby, G. & J. Burns, P. Carwardino, K. Clark, M. & P. Coupar, I. Faithfull, R. & J. Field, M. Harvey, D. & J. Holmes, M. Hunting, P. Kelly, T. & D. New, J. Ross, B. Vardy, J. & R. Wertz.

Minutes of the August General Meeting (Vic. Ent. 18:78-79) were passed (Kelly/Hunting).

K. Walker then introduced Dr Mark Harvey (Museum of Victoria) to talk on 'Australian Water Mite Tales'. Mark gave a wide-ranging talk on many aspects of the biology, structure and classification of water mites, illustrated by numerous slides of habitats, mites and 'human analogues'. Considerable discussion followed, and Ross Field then proposed a vote of thanks.

Correspondence: Detailed by the Secretary. Received (G. Burns/Hunting).

Treasurer's Report: G. Burns reported credit balances of \$2117.86 (general account), \$1744.12 (Le Souef Memorial Fund) and \$421.61 (Junior Encouragement Fund). There are at present 90 financial members of the Society.

Editor's Report: I. Faithfull requested articles for future issues of the Victorian Entomologist. He also gave notice that he would be relinquishing the position of Editor from January 1989.

Excursions: P. Carwardine commented on the proposed excursion to the Gresswell Forest area on December 10 or 11, and asked M. Braby to give details. See elsewhere in this issue: meeting place, Greenwood Drive, Bundoora (at entrance to Gresswell Forest Reserve), 10 am, Sunday December 11.

General Business:

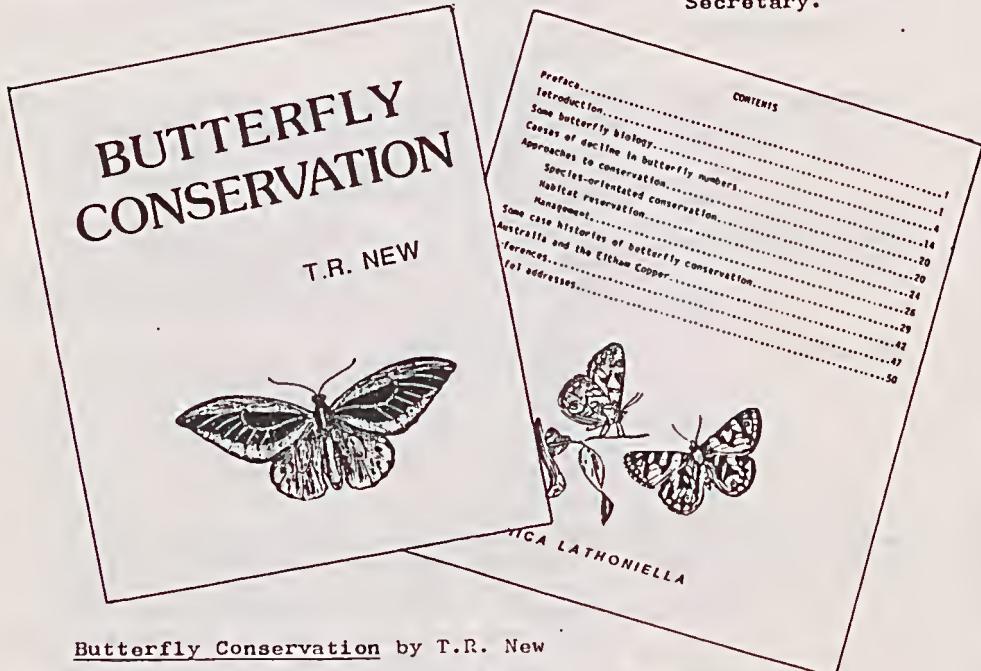
- i. The Secretary reminded members of the Extra-Ordinary General Meeting to be held on 9 December, for the purpose of amending Clause 13 of the constitution (see Vic. Ent. 18:82). Advice has been received that the proposed new wording is acceptable to the Commissioner for Taxation.
- ii. December 9 is also the traditional 'Members' Night'. It will be followed by refreshments in the Sciences Club, cost \$3/head, to be paid at the meeting.

iii. Exhibits:

- a) D. Holmes: A case of butterflies from his recent trip to the Broken Hill/ Cobar area, including a bred series of Ogyris genoveva.
- b) R. Field: Butterflies from southern Queensland, including Acrodipsas arcana and a range of other lycaenids and skippers.
- c) I. Faithfull: Insects from western NSW, including Lucia limbaria from Lightning Ridge, and an unusually small specimen of Heteronympha merope (50 mm of normal 66 mm span). He also reported a letter from Kelvyn Dunn, commenting on identity of Telicota spp. from E. Victoria.
- d) M. Braby - distributed notices of specimen drawers/cabinets for sale.

The meeting closed at 9.45 pm.

T. New,  
Secretary.



Butterfly Conservation by T.R. New

Published by the Entomological Society Of Victoria

You can obtain your copy for \$4.00 by writing to Dr. New,  
Dept. Of Zoology, LaTrobe University, Bundoora, Victoria, 3083

THE ENTOMOLOGICAL SOCIETY OF VICTORIA (INC.)

NOTICE OF EXTRA-ORDINARY GENERAL MEETING

NOTICE is hereby given that an Extra-ordinary General Meeting of the Members of the Society will be held at Clunies Ross House, National Science Centre, 191 Royal Parade, Parkville, at 8 pm on Friday, 9th December, 1988.

AGENDA

To discuss and if thought fit, pass the following special resolution:

" THAT Clause 13 of the Constitution be amended to read as follows:

DISSOLUTION.

The Society shall not be dissolved or its name changed without the consent of three quarters of the members present at an extra-ordinary General Meeting of the members, called for that purpose, and of which 21 days written notice has been given. If, on dissolution, there remains, after satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed amongst the members of the Society but shall be given or transferred at the sole discretion of the Council to one or more other incorporated societies, each of which has similar objects and prohibits the distribution of its income and property amongst its members."

On behalf of the Council,

K.L.Walker, PRESIDENT. 21st October, 1988.

COMMENT

This amendment, which more precisely spells out how the Council is permitted to treat any remaining assets left at dissolution, has been insisted upon by the Commissioner of Taxation to enable us to continue to enjoy tax exempt status for our income. Your Council feels that it is essential to retain exempt status and therefore urges members to vote in favour of this resolution.

The words deleted from the present clause, (after the first sentence, which is retained unaltered), are as follow: "The proceeds arising from the winding up of the Society, after all costs and debts have been paid, shall be distributed amongst such charitable and/or scientific institutions, and in such amounts, as the Council in their absolute discretion, shall decide. No member shall be entitled to share in, or receive any benefit from, such distribution".

## On The Grapevine

Fabian Douglas has recently appeared on the radio programme Eclectic Parrot on 3RRR (Tuesdays at 5 pm) where he talked about the LCC Mallee report and his own principal studies of the buprestids and butterflies of the Victorian deserts. He has, for example, found that currawongs take the larger jewel beetles; that at least 3 species can be found in emu droppings (probably after they've picked them up dead from the ground); and that heros lays only one egg on each mallee tree.

Small Grass Yellows are in high numbers this year. I have seen them at Mansfield (late September) & Toombullup (10 November). Fabian Douglas has seen lots heading south or south-east and Michael Braby has seen them in Bundoora. Please send in further details, especially of behaviour.

Tony Faithfull is Editor of Indigenotes, the publication of the Indigenous Flora and Fauna Association, a body of professional and amateur biologists actively involved in the conservation of flora and fauna. Preservation through management and restoration is one of the special concerns of the Association. Tony himself is professionally involved in the restoration of Yarra Bend Park.

More On The Grapevine on page 114.



### PROTECTED BUTTERFLIES

Ogyris otanes C. and R. Felder

Ogyris idmo halmaturia Tepper

Hesperilla flavescens flavescens Waterhouse

In December 1973 the Entomological Society of Victoria placed the two Ogyris listed in a 'Limited Voluntary Protection' category. In February 1986 the Hesperilla became the third butterfly to be listed. The cooperation of members is requested in the observation of the recommended restrictions :-

1. That no more than two specimens be noted by any one collector within any one season.
2. That no larvae or pupae be collected at any time.



## BUTTERFLIES AND BIRDS

Ian Faithfull, 58 Neville Street, Box Hill South, Victoria, 3128

David Crosby (Vic. Ent. 18(2):21) provided and asked for information on birds attacking butterflies. Jean Brown responded (18(3):42) as did Tony Morton (18(4):62). I have a few records of predation or attempted predation, a few specimens which look to be bird damaged and a few literature records which might be overlooked unless noted.

Most of my field observations involve the Willy Wagtail, Rhipidura leucophrys. On 18 August 1983 at Albert Park I watched one of these birds repeatedly chase and nearly capture both Vanessa itea and V. kershawi. On 10 December 1983 I saw a blue larger than Zizina labradorus (probably Lampidos boeticus) snapped up and eaten wings and all by a Willy Wagtail at Yarra Bend, Kew. On 2 January 1986 a female Heteronympha merope was captured by the same black and white fantail at Fitzroy Gardens. Also at Fitzroy Gardens (East Melbourne), on 7 February 1986, I found an injured Papilio anactus in a puddle in the late afternoon. It was headless, although still alive, and there was a large chunk missing from a hind wing as shown in my rough sketch. Bird?



Most recently at Box Hill South (23 October 1988) I have seen a Little Wattlobird, Anthochaora chrysoptera, chase Pieris rapae.

Three butterflies in my small collection seem to have obvious beak marks and these are illustrated. If there are several beak marks the specimen becomes quite dilapidated and it is difficult to differentiate the damage from other wear and tear.

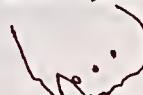
Graphium macleayanum, Blaxland, NSW, 13 Jan. 1971.  
(left hind wing)



Danaus plexippus, Maroochydore, Qld., Aug. 1967  
(right hind wing)



Vanessa itea, Alice, S. of Tabulam, N NSW, 17 Mar. 1984.  
(right hind wing)



Continued p.106

## NOMENCLATURE OF AUSTRALIAN PAPILIONIDAE - AN UPDATE

Robert H. Fisher

South Australian Museum, North Terrace, Adelaide, S.A. 5000

The family Papilionidae has been the subject of much taxonomic research, and many papers discussing the classification and phylogeny of these butterflies have been published in the last 50 years. In Fisher (1988) attention was drawn to papers by Hancock (1983 and 1988) and it was suggested that the nomenclature of Australian Papilionidae be brought into line with the results of Hancock's research. Shortly after this paper was published E.D. Edwards drew my attention to a significant paper by Miller (1987) which had arrived recently in this country by surface mail. Miller's paper illustrates well the complex methodology used by modern taxonomists in their continuing efforts to achieve classifications that reflect the true phylogeny of the taxa studied.

Miller's paper is concerned with the Papilioninae and while he concurs with much of Hancock's arrangement for this subfamily he sees no justification "at present" for subdividing the genus Papilio. He expresses also (p.371) the hope that his suggested classifications, if changed by future systematic research, are such that additional changes in generic nomenclature will not be required. In view of those comments, and having regard for the priority of Miller's paper, I am convinced that the nomenclature of our Australian species of Papilio should remain as in Common and Waterhouse (1981).

### References

Common, I.F.B. & Waterhouse, D.F., 1981. Butterflies of Australia. Revised Edition. Angus and Robertson, Sydney. 682 pp.

Fisher, R.H., 1988. Nomenclature of Australian Papilionidae. Victorian Entomologist 18(3):46-47

Hancock, D.L., 1983. Classification of the Papilionidae (Lepidoptera): a phylogenetic approach. Smithersia 2:1-48

Hancock, D.L., 1988. A revised classification of the genus Atrophaneura Reakirt (Lepidoptera: Papilionidae). Aust. Ent. Mag. 15(1):7-16.

Miller, J.S., 1987. Phylogenetic studies in the Papilioninae (Lepidoptera: Papilionidae). Bulletin of the American Museum of Natural History 186(4):367-512.

TELICOTA IN VICTORIA (LEPIDOPTERA : HESPERIIDAE)

Kelvyn Dunn, Flat 1, Island View Villas, Mungar Rd., Maryborough,  
Queensland, 4650

Burns (1963) recorded Telicota kreffti ancilla H. Sch. (sic) from Victoria based on a specimen sent to him by Archie May of Noorinbee North, eastern Victoria. Burns indicated that the specimen came from Noorinbee. Later, further specimens of Telicota Moore were taken at Thurra River near Noorinbee by Ray Manskie in December 1972. Thurra River is apparently the locality of the male referred to by Burns (R.C. Manskie, D.F. Crosby, pers. comm.) but according to David Crosby the area in question has been disturbed and Telicota may no longer exist there.

I examined seven specimens taken by Manskie and believing them not to be Telicota ancilla H. Sch. (see Common and Waterhouse, 1981) sent a male to Ted Edwards (CSIRO) who confirmed their identity as T. eurotas (Felder) - a new record for Victoria. Burns' (1963) description and illustration of the Telicota male are not clear enough to determine whether his specimen was T. ancilla or T. eurotas, but it appears similar to the latter.

It would be valuable for Victorian collectors to re-investigate the Thurra River district for further colonies of T. eurotas and possibly T. ancilla, if it also occurs in Victoria. T. ancilla is otherwise known as far south as Broulee Island, and near Batemans Bay in coastal New South Wales (E.D. Edwards, pers. comm.).

Also concerning Telicota in Victoria, in 1978 I found a larva of this genus feeding on Bromus stramineus at Dandenong. Unfortunately it failed to survive in captivity so positive identification was not possible. The larva was about 20 mm long and was sheltered in a typical laddered Telicota shelter. It was too large for Taractrocera papyria (Boisduval). The larva was photographed in its shelter prior to collection.

### Acknowledgements

E.D. Edwards for identifying the Telicota species and for information on Australian National Insect Collection records.  
R.C. Manskie for permission to examine his Telicota specimens.  
National Herbarium of Victoria for identifying the Bromus sp.  
D.F. Crosby for information.

### References

Burns, A.N. (1963) Two new butterfly records for Victoria. Victorian Naturalist 80(3):76-77

Common, I.F.B. and Waterhouse, D.F. (1981). Butterflies of Australia. Revised Edition, Angus and Robertson, Sydney

## BUTTERFLIES AND BIRDS

Continued from p.103

Barrett (1925) refers to H. merope taken by a Leaden Fly-catcher Myiagra rubecula. There are other references in the Victorian Naturalist to bird predation but I have not got the details. Keller & Keller (1979) illustrate a honeyeater eating a V. kershawi. McFarland (1978) provides full details of the capture and disposal of an Ogyris amaryllis by a Singing Honey-eater, Lichenostomus virescens.

### References

Barrett, Charles, 1925. Birds and butterflies. Victorian Naturalist 42:47-8

Keller, Daphne & Keller, Ralph, 1979. The Little Desert - a living wildflower garden. Wildlife Australia 16(1):15-8

McFarland, Noel, 1978. Ogyris (Lepidoptera:Lycaenidae) captured and eaten by a bird. Australian Entomological Magazine 4(5):97



NEW DISTRIBUTION RECORDS FOR BUTTERFLIES  
IN SOUTHERN QUEENSLAND

Kelvyn Dunn, Flat 1, Island View Villas, Mungar Rd., Maryborough,  
Queensland, 4650

Recent collecting at Pialba, Hervey Bay, Queensland, has produced minor new distribution records for Suniana sunias nola (Waterhouse) and Prosotas felderri (Murray). S.s. nola was previously known from as far north as Rainbow Beach, 25° 54'S, 153° 06'E (Dunn, 1983) and P. felderri as far north as Maryborough (Dunn, 1983).

During September 1988, Toxidia doubledayi (Felder) was found to be common in woodland about 10 km SSW of Eurong Beach, 25° 36'S 153° 05'E, Fraser Island, Queensland. Fraser Island represents an extension of the known distribution of this species. On the adjacent mainland, T. doubledayi has been taken at Maroochydore (Fred Sattler, pers. comm.), Poona 25° 43'S, 152° 56'E (Ray Manskie, pers. comm.) and was found near Fairlies Knob National Park, 25° 30'S, 152° 18'E, by Ray and the author in March. All of these records appear to be outside the distribution boundaries given by Common and Waterhouse (1981).

References

Common, I.F.B. and Waterhouse, D.F. (1981) Butterflies of Australia. Revised Edition, Angus and Robertson, Sydney  
Dunn, K.L. (1983) New distribution records for some Queensland butterflies. Australian Entomological Magazine 9(6):94

## BOOK REVIEW

### Scientific and Common Names of Insects and Allied Forms Occurring in Australia

Compiled for Standing Committee on Agriculture - Plant Health Committee

by P.B. Carne (Editor), B.K. Cantrell, L.D. Crawford,  
M.J. Fletcher, I.D. Galloway, K.T. Richards and A. Terauds  
CSIRO, Melbourne, 1987. 120 pp., soft cover.

Available from CSIRO Bookshop, 314 Albert St., East Melbourne,  
3002.

This is a very useful and convenient book, now in its fifth, revised and expanded, edition. I have used its predecessor frequently to check the spelling of scientific names and to identify insects referred to in the press by their common names.

The book has four main parts. An index of scientific names occupies about 35 pages, up from 28 in the previous edition because of the inclusion of families (e.g. Adelgidae are pine aphids), some cross references (Celerio lineata see Hyles lineata) and the inclusion of new names. The second part is the common name index, which contains the same information.

The third section, 34 pages, is the systematic list, which gives names for phyla, classes, orders, families and species, from fluke snails to the English wasp, but not subfamilies or other taxa. Two phyla are covered: molluscs and arthropods.

The last part, a list of the authors of species names, occupies 8 pages and is entirely new. L. is Linnaeus, L.&G. is Laporte & Gory, Lab. is Laboulbène, etc. The coverage looks to be fairly comprehensive so the list should prove of wide use.

However I fear the terms of reference of the Plant Health Committee may have unfortunately constrained Dr Carne and his working group. The agriculture emphasis comes through strongly. The editors made a call for proposals for additions to the list in 1985 (Vic. Ent. 15(1):5) but it is surprising what has not been included. Most of the butterflies are not listed. Two Delias are featured but not the Wood White or the Northern Jezebel. D. harpalyce is called the imperial white butterfly, Pieris rapae the cabbage white butterfly and Danaus plexippus the wanderer butterfly but D. nigrina is the common Jezebel and Anaphaois java the caper white. The common name of Catopsilia pomona is recorded as the cassia butterfly although most people who know it call it the Lemon Migrant. Papilio anactus is the small citrus butterfly (in NSW?) where there is also a large citrus, P. aegeus. Dingy Swallowtail and Orchard Butterfly seem to be the common names used in Victoria. Not included are Mordellidae (pin-tail Beetles), Passalidae (Bess Beetles) and Nymphalidae (Nymphs). There is no Velvet Ant (Mutillidae) or Mallee Mouse Spidor (Missulena). Flourey baker is included but not Flourey Millor.

Some of the names included are of great interest. The orchid dupe (an ichneumonid), the cherrynose (a cicada), the Cooloola monster (Orthoptera) and Chinoso junks (cup moth larvae) are particularly evocative. There are a lot of constructed common names like granulose dung beetle, rodshouldered leaf beetle and roundheaded pasture wobworm. The Eltham Copper is of too recent coinage for inclusion.

I have mentioned already some species with multiple common names that may reflect regional differences of interest to the linguist. A possible example of this is the oleander butterfly (NSW?) or Common Crow (elsewhere?). Common names are notoriously changeable. Nyctemora humica is the magpie moth and senecio moth but also Cineraria Moth (as popularised by Courtenay Smithers in the Butterfly Migration Study cooperator mailouts) and Ivy Moth (French, 1944). I think it is important that all should be recorded so that we have an archive of common names. If necessary the preferred common name could be indicated.

There is another curiosity. Although widely adopted, the use of lower case for the leading letters of each common name makes it impossible to distinguish a common name in any grammatical construction, unless one constantly resorts frequently to the bible, the book under review. The common brown butterfly may well be Goitoneura klugii!

No doubt the aboriginal languages have names for many many insects and some of these more widely known such as those for native bees in Arnhem Land (Niwuda, Yarrpana, etc.) should be included. A special effort to collect aboriginal names could greatly benefit the study of entomology in Australia. Witjuti and bardoe soon to be the only ones in common parlance.

This book would be much more useful and fascinating if it was more comprehensive. The terms of reference could be freed up and more contributions should be made by those who use common names including amateur entomologists.

Serious students of entomology, and of agriculture and forestry, would certainly benefit from having this book. It is definitely recommended for professional entomologists who deal with the public and for members of the public, such as journalists, who deal with entomologists.

As a closing note, the real difficulty of assigning common names was emphasised for me in the cabin of the fire tower at the top of Mt Dologate, east Gippsland, in January 1988. The fire spotter on duty referred to the "native bees" which swarmed in countless thousands on the flowering eucalypts below us. I could hardly dispute such a triumph of the vernacular. The "native bee" was a soldier beetle, Chauliognathus pulchellus.

#### Reference

French, C. 1944. Records of native insects attacking introduced plants. Victorian Naturalist 61(3):58-60

Ian Faithfull

THE BIG DESERT - RED BLUFF AND THE BORDER TRACK

3 TO 7 NOVEMBER 1984. PART 4.\*

Ian Faithfull, 58 Neville Street, Box Hill South, Victoria, 3128

The morning of 6 November was warm and the day hot with light and variable breezes from the south-east and east. One of the first catches of the day was of two Colpochila bella collected from a bat harp trap, which had been placed in a gap between two dwarf Yellow Gum trees, Eucalyptus leucoxylon, where they had probably remained inactive after being caught the previous night. This is a handsome medium sized chafer (Scarabaeidae; Melolonthinae) which was taken in the Big Desert by D.F. Crosby in November 1977 and is also known from several other localities in the Victorian Mallee. The harp trap consists of a vertical screen of fishing line with a canvas trough beneath to catch the animals whose flight is arrested by the screen. Three specimens of this beetle came to light between 9.20 and 9.40 pm ESST that night. The first went very still after being picked up from where it had landed on the ground, and remained motionless, with legs and antennae curled up, after being replaced on the ground. Much handling and pushing finally forced it to seek refuge in leaf litter. The second specimen also went comatose on being handled and remained still for a few minutes. Warming at the gas lamp failed to revitalise it. Such behaviour is an example of thanatosis or death feigning (see Crewson, 1981, pp. 300-1 for a discussion of this phenomenon) which E.B. Britton (pers. comm. March 1985) thinks has not been noticed before in the Melolonthinae. Skeletal remains indicate that C. bella is one of the commonest chafers in the Big Desert. (See Britton, 1986, op.cit.).

Other beetles taken at light that night included the widespread water beetle Lancetes lanceolatus (Dytiscidae) and Uracanthus leai, a longicorn, at Red Bluff camp, and near the Broken Bucket Tank another longicorn Tryphocaria sp. (one only 10.10 pm) and a weevil.

Along the Border Track in the south-west corner of the Big Desert Wilderness Area the jewel beetle Stigmodera (Castiarina) xanthespilosa was collected from Leptospermum myrsinoides flowers and skeletal remains of S. (Themognatha) mitchelli were found. The skipper Notasingha dirphia was commonly seen feeding at flowers of Calytrix tetragona, the Fringe-myrtle.

Around Red Bluff insects were very numerous. The abundant flowers of tea tree and Yellow Mallee (E. incrassata) harboured four or more species of clerid beetle, pin-tail beetles, wasps and the buprestid S. (C.) octomaculata. I have already reported the activities of the large bombyliid fly Comptosia vittata (Vic. Ent. 15(5):67,73) while Ron Garrett found three species of Odonata, also previously reported (Vic. Ent. 14(6): 59). (The results of the vertebrate survey work have not as yet been published.)

We departed Red Bluff in the afternoon of 6 November leaving behind a much reduced band of field naturalists. At the previous rendezvous point on the Berdor Track to the south I spotted the much-mimiced red longicorn Ereschema poweri on Yellow Mallee flowers and Liparetrus retundicellis. Members of this latter genus are small, round chafers like little versions of Celpechila, which are usually found on flowers or feeding on young eucalypt foliage (Britten, 1980). This specimen had partly consumed a petal of Leptespermum myrsinoides. About 30 species of Liparetrus are known from north-west Victoria.

Later in the afternoon we visited a small dam about 8.5 km south-west of Red Bluff where four or more Pea Blues were seen drinking at mud at its edge. Lampides boeticus has been recorded previously from the Big Desert by both Nigel Quick and Michael Braby (see Braby, 1987). Under a well-decayed wooden post in the mud were three of the striking green carabid beetle Chlaenius sp..



Helaeus castor (Tenebrionidae), one of the Pie-dish beetles, from the Big Desert. Underside, left.

Our camp for the night of 6-7 November was about 1 km north of the Breken Bucket Tank on the Murrayville Track. Here, at night, under a log on the edge of a dam, I found another chafer which E.B. Britton has determined as Heteronyx sp. nov. near agricola. Britton believes there are at least 300 undescribed Heteronyx species and is preparing a revision of the genus (see Britton, 1988) which A.M. Loa has called the second most difficult of all the genera of Australian beetles (after Parepsis).

(Loa, 1912). The specimen is now in the Museum of Victoria collection.

On 7 November we ventured north along the Murrayville Track. A few specimens of the primitive castniid moth Synemon were seen flying in the morning. Its larvae, like those of Notasingha dirphia, feed on Lopidosperma (Sword-sedge : Cyperacaea). The weather was very warm to hot. The Fringed Blue, Noctua agricola, was common, as were some of the Stigmodes including S. (C.) argillacea and S. (C.) pallidiventris on tea tree flowers.

Numerous other Coleoptera were collected during this trip including species of Histeridae (Saprinus), Coccinellidae, Tenebrionidae, Chrysomelidae (2 species of Trachymela, identified by Peter Kelly) and Curculionidae. Ants, cockroaches and spiders were particularly conspicuous aspects of the invertebrate fauna. More details, in particular precise localities and times of collection, can be found in my reports to the National Parks Service. I hope to present the results of subsequent Big Desert trips in future issues of this magazine.

#### Acknowledgements

I am particularly thankful to Dr E.B. Britton for identifying and commenting on Mololonthinae, Gordon Burns for identifying Buprestidae and Peter Kelly Chrysomelidae. The National Parks Service granted permission for insect study in the Big Desert Wilderness Area under Research Permit No. 845/32; thanks to Dr Arnis Heislers and Mr Malcolm Turner. Tony Faithfull was of invaluable assistance in the field. Other members of the Field Naturalists Club of Victoria brought specimens to my attention or were otherwise helpful. Dr A. Neboiss allowed access to the Museum of Victoria collection.

#### References

Braby, Michael F., 1987. Notes on butterflies in the Big Desert, Victoria. Victorian Entomologist 17(2):19-21

Britton, E.B., 1980. A revision of the Australian chafers (Coleoptera: Scarabaeidae: Mololonthinae) Vol. 3. Tribe Liparetrini: Genus Liparotrus. Aust. J. Zool. Suppl. Ser. 76

Britton, E.B., 1988. Synopsis of the genera of Australian Heteronyxini (Coleoptera: Scarabaeidae: Mololonthinae). J. Aust. ent. Soc. 27:27-36

Loa, A.N., 1912. The late Rev. Canon Thomas Blackburn, B.A., and his entomological work. Trans. Roy. Soc. South Australia 36:iv-xl.

Loa, A.N., 1914. Notes on Australian Cetoniidae; with a list of species and descriptions of some new ones. Trans. Roy. Soc. South Australia 38:132-218

Crowson, R.A., 1981. The Biology of the Coleoptera. Academic Press, London, 802 pp.

\* Part 1 : 18(2):29-30, Part 2 : 18(4):68-9, Part 3 : 18(5):87-8.

EXCURSION TO GRESSWELL FOREST AND PLENTY GORGE  
SUNDAY 11 DECEMBER

TIME : 10 am and 12 midday.

PLACE: Mental Health Authority Reserve, Greenwood Drive, Bundoora, about 100 metres east of Lea Crescent on the south side of Greenwood Drive. Melways map 20, grid reference BC3.

PLAN: The morning will be spent in Gresswell Forest and at Gresswell Hill and possibly Strathallan. We will return to the carpark (there is also a toilet block) at midday and depart by car for the Plenty Gorge, probably at Janefield, for lunch. Michael Braby will be leading the excursion.

BRING: Cut lunch, good walking shoes, butterfly nets and the usual entomological impedimenta.

ENQUIRIES: M. Braby 439-9015 before 9 pm please.



BUTTERFLIES AND MYTHOLOGY NO. 8

Argus	- a giant possessed of one hundred eyes of which only two were asleep at a time.
Pierides	- the Muses - the nine daughters of Pierus, King of Macedonia.
Pomona	- the goddess of fruit trees.
Poseidon	- the god of the sky and the sea.

- Jean Brown

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ANNUAL SUBSCRIPTIONS ARE DUE ON 1 JANUARY AND ARE PAYABLE AT OR BEFORE THE FEBRUARY MEETING. PLEASE USE THE ENCLOSED SUBSCRIPTION RENEWAL FORM WHEN PAYING BY MAIL.

More On The Grapevine on page 102

Kelvyn and Jodie Dunn went to the Iwasaki Resort at Yeppoon, Queensland, for their honeymoon and later went to Townsville and Ingham as well. Being very dry there were few butterflies. Book author Peter Valentine was visited at Townsville. Peter noted that birdwings were flying there in late September but Kelvyn didn't see any. Also visited was Saunders Beach Butterfly Farm, "Butterfly World", run by S. and P. Radley, about 25 minutes drive north of Townsville. 29 species of butterfly were flying at Mt Archer near Rockhampton including two male Delias melanippe (which is not at all common in central Queensland). On 30 October Kelvyn observed a migration of Appias paulina, the Common Albatross, between 10 km west of Maryborough and Biggenden. Both males and females were all flying south.

Rod Eastwood and Ray Manskie have been collecting together recently. Rod lives at Nambour and is keen on the Lycaenids.

Max Moulds' cicada book is soon, hopefully, to be published.

As the magazine goes to press Tim Now and Kon Walker are sampling the delights of Iron Range and north Queensland.

David Crosby is continuing his survey work on Hesperilla flavescens for the Department of Conservation, Forests and Lands and is preparing a report.



I spent several hours with John Burns and Michael Braby counting larvae of Paralucia in the Castlemaine area in mid October. John is planning an article on butterflies and the greenhouse effect. I'm hoping a new editor will turn up. Any volunteers?

#### RECENT ARTICLES OF INTEREST

R. Marchant, Estimates of annual production for some aquatic insects from the LaTrobe River, Victoria. Aust.J. Marine & Freshw. Res. 37:113-20, 1986. Pioneering study for Aust. of aquatic productivity financed by SECV. Ephemeropt. 0.7-1.5 g m<sup>-2</sup> p.a.; Plecopt. 0.03-2 g m<sup>-2</sup> (Leptoperla spp.); Trichoptera.

Catherine Yule, Comparison of the dietary habits of six species of Dinotoperla (Plecoptera:Gripopterygidae) in Victoria. Aust.J. Mar. Freshw. Res. 37:121-7, 1986. Herbivore detritovores: diatoms, filamentous green algae, fungal hyphae, etc. Field & lab. obs, gut analysis, mouthparts examination.

Bruce C. Chessman, Dietary studies of aquatic insects from two Victorian rivers. AJMFR 37:129-46. 127 taxa, juvenile Coleoptera, Dipt., Ephem., Plecopt., Trichopt. in LaTrobe & Tanjil Rs, by gut content analysis & captive obs., ultrafine detritus, diatoms, invertebrates constitute main food.

M.J. Kokkinn, Osmoregulation, salinity tolerance & the site of ion excretion in the halobiont chironomid Tanytarsus barbitarsis Freeman. AJMFR 37:243-50.

Ian C. Campbell, Life histories of some Aust. Siphlonurid & Oligoneuriid mayflies (Ephemeroptera). AJMFR 37:261-88, 1986. 7 spp. examined: Tasmanophobia, Ameletoides, Mirawara, Coloburiscoides.

I.D. Gauld & G.A. Holloway, Australian ichneumonids of the tribes Labenini and Poecilocryptini. Bull. Br. Mus. nat. Hist. (Ent.) 53(2): 107-49, 30 Oct. 1986. Keys to 5 gen., 36 spp; 20 new spp. described, 16 redescribed. Certonotus, Labena, Alaothyris, Poecilocryptus, Urancyla.

Ian D. Gauld, Latitudinal gradients in ichneumonid species-richness in Australia. Ecological Entomology 11:155-61, 1986. Family as a whole not more spp. rich in tropics than in temperate regions due partly to absence of sawfly hosts in tropics + generalist strategies of trop. spp. Greater trop. richn. of pupal/prepupal parasitoids (Pimplinae & Mesostenini) & nocturnal lepidopterous larval parasitoids.

Daniel Mascanzone & Henrik Wallin, The harmonic radar : a new method of tracing insects in the field. Ecolog. Entomol. 11:387-90, 1986. Tiny (e.g. 2x3 mm, 0.3 g) electronic diode glued to insect reflects microwave beams emitted by portable detection equipment (a gunlike unit costing \$14,000). Tested in field with carabid beetles.

Trevor G. Forsythe, The relationship between body form and habit in some Carabidae (Coleoptera). Journal of Zoology (Proc. of the Zool. Soc. of London) 211:643-66, 1987.

R.J. Rowe, Predatory versatility in a larval dragonfly, Hemianax papuensis (Aeshnidae). J. Zool. London 211:193-207, 1987. 4 prey-specific behaviours identified incl. one for dead snails.

J. Alcock & K.M. O'Neill, Density-dependent mating tactics in the Grey Hairstreak, Strymon melinus (Lepidoptera : Lycaenidae). J. Zool. Lond. (A) 209:105-13, 1986

Steven P. Courtney, The ecology of pierid butterflies : dynamics and interactions. Advances in Ecological Research 15:51-131, 1986.

R. Buckley, Ant-plant-Homoptera interactions. Advances in Ecological Research 16:53-85, 1987. In depth review.

P.H. Crowley, R.M. Nisbet, W.S.C. Gurney & J.H. Lawta, Population regulation in animals with complex life histories : formulation and analysis of a damselfly model. AER 17:1-59, 1988.

Howard G. Spangler, Moth hearing, defense and communication. Ann. Rev. Entomol. 33:59-81, 1988. Ultrasound, sexual communication and predator defense.

David L. Pearson, Biology of Tiger Beetles. Ann. Rev. Entomol. 33:123-47, 1988. Complete broad update for Carabidae:Cicindelinae.

Kenneth F. Hayes, Sublethal effects of neurotoxic insecticides on insect behaviour. Ann. Rev. Entomol. 33:149-68.

V.A. Drake & R.A. Farrow, The influence of atmospheric structure and motions on insect migration. Ann. Rev. Entomol. 33:183-210.

Jeffrey R. Aldrich, Chemical ecology of the Heteroptera. Ann. Rev. Entomol. 33:211-38, 1988. Chemical fortification. Allomones & pheromones. Analysis by family. Defense, reproduction, migration.

Omar Sattaur, A new crop of pest controls. New Scientist 119 No. 1621:48-54, 14 July. Integrated pest management in the Canete Valley in Peru(cotton), southern Peru (potatoes), Nicaragua, etc.

Graham Matthews, The attack of the charged brigade. New Sci. 1621:55-7. Electrodynamic spraying for small scale use in the third world, developed by ICI. Its advantages.

The benefits of buzzing. New Sci. 1635:33, 22 October. Buzz pollination requires bees to embrace specially arranged anthers, close their wings and hum, thus discharging a cloud of pollen. Study of a Bombus sp. on Kiwi fruit in NZ, etc. (S. Corbet et al., Functional Ecology 2:147).

The race is on for safer pest control. Weekly Times 21 Sept., p.32. Two Aust. companies have launched a nematode insecticide with the Swiss co. Maag. Called Otinem, it is directed at control of the black vine weevil, Otiorrhynchus sulcatus, a pest for which the chemical control agents have proved ineffective or unsafe. The formulation is a wettable powder with the nematodes in virtual suspended animation and a large pack, costing less than \$100, contains 50 million nematodes and would treat up to 100 sq. m. of ground.

Sucking up strawberry bugs. Weekly Times 5 Oct., p.13. A monster tractor-powered vacuum machine for strawberry crops in northern California. "Used daily on 200 ha of strawberry fields with very good results."

Last of DDT stocks leaves state. Weekly Times 5 Oct., p.13. Govt. bought back 86,000 t after meat contamination scare. Sent to Britain for incineration.

Chris McLennan, Tiny insects head assault on weeds. Weekly Times 12 October, pp.6-7. Ross Field takes the WT on a tour of the Keith Turnbull Research Institute's new quarantine facility at Frankston.

Carolyn Ford, The great mozzie plague. Herald (Melbourne), 2 Nov. p.1. Loch Sport, Gippsland. "These mosquitoes will fly 7 km for a feed of blood. They are fairly big and very savage ... they will bite straight through your wet suit."

Carmel McCauley, Moths try the numbers game and Spender tries to swat the Minister for Moths. The Age 3 November, p.20. Bogong moths have caused problems at the new Parliament House in Canberra since early October with large aggregations "thousands in bat-like clumps" around the window ledges in early November. The building seems defenceless. According to Ebbe Nielson: "The environment is too stressful. The moths usually sit in peaceful caves in the mountains, where there is nothing to distress them. But here they have people disturbing them, they have the daylight all day, the heat, and the lights on all night. It's not good for them."

Sally Morrell, Rash of thrip hit the nappies. Herald 15 Nov., p. 3. Failure of early spring rains led to plague of thrips in late October in Melbourne.

J. Balderson, Acromantis australis Saussure (Mantodea:Hymenopodidae:Acromantinae): a new family and subfamily record for Australia. Aust. ent. Mag. 15(3):81-4, Sept. 1988. 2 specimens recorded from Iron Range area, illustrations, characters to separate from other Australian species.

M.P. Ablin, A new larval host record (family Periplocaceae) for three Lepidoptera in northern Australia. Aust. ent. Mag. 15(3):85-6. A pyralid, an arctiid and a geometrid.

A.P. Mackey, Phenology of some myrmecophytes (Neuroptera) species from Rockhampton (Central Queensland). Aust. ent. Mag. 15(3): 87-90. Seasonal distribution of 18 spp. collected from a light trap 1980-7.

F.W.D. Rost & D.F. Hales, Fluorescent markings in some Australian butterflies. Aust. ent. Mag. 15(3):91-4. Partial list of spp. in which fluorescence observed; description of patterns in Q. priamus euphorion, P. aegaeus and D. hamatus.

G.A. Webb, G.A. Williams & R. de Keyzer, Some new and additional larval host records for Australian Cerambycidae (Coleoptera). Aust. ent. Mag. 15(3):95-104. Mostly NSW records for 60+ spp. of longicorn.

J.A. Osmolak, Leafhopper trapping methods: comparison of light traps operating all night and at sunset. Aust. ent. Mag. 15(3): 107-111. Both traps obtain similar species. The vector of tomato big-bud disease, Orosius argentatus, is shown to fly mainly at dusk, although only all-night trapping detected some flights.

Lesley A. Ballantyne, The identities of Luciola australis (F.) and L. guerini Laporte (Coleoptera:Lampyridae). J. Aust. ent. Soc. 27(3):161-5, Aug. 1988. Interesting story of old firefly types.

A. Macqueen & B.M. Doube, Emergence, host-finding & longevity of adult Haematobia irritans exigua De Meijere (Diptera:Muscidae). J. Aust. ent. Soc. 27:167-74. Buffalo flies mostly emerge from puparia in the afternoon with most females emerging early. Females arrive at cattle at night. The flies live about 20 hrs at high humidity.

T.J. Ridsdill-Smith, Survival & reproduction of Musca vetustissima Walker (Diptera:Muscidae) and a scarabaeine dung beetle in dung of cattle treated with avermectin B1. J. Aust. ent. Soc. 27:175-8. This anthelmintic kills bushfly larvae and immature stages of

Onthophagus binodis in dung of the beast treated but survival rates returned to normal 8 weeks after treatment.

G.A. Williams & T.A. Weir, Further new species of Australian Mastogeniinae (Coleoptera: Buprestidae). J.Aust.ent.Soc. 27:179-81. Helferella gothmogoides & H.tolgae from N.Q. described.

Penelope B. Edwards, Contribution of the female parent to survival of laboratory-reared offspring in the dung beetle Kheper nigroaeneus (Bohemian) (Scarabaeidae). J.Aust.ent.Soc. 27:233-7. This sp. assessed for introd. to Aust. Overall survival was 0% without the female and 19% with the fem. in the lab., considerably lower, for unknown causes, than the 58-84% in the field.

M.S. Aswan, Development and mating behaviour of Oechalia schell-enbergii (Guerin-Meneville) and Cermatulus nasalis (Westwood) (Pentatomidae). J.Aust.ent.Soc. 27:183-7. Important bug predators of Lepidoptera.

D.E. Wright, D.M. Hunter & P.M. Symmons, Use of pasture growth indices to predict survival and development of Chortoicetes terminifera (Walker) (Orthoptera: Acrididae). J.Aust.ent.Soc. 27:189-92. Using the index developed, one can forecast the development stage that locusts will reach without further rain.

D. Booth, Seasonal abundance of potential malaria vectors in the Torres Strait, 1985-86. J.Aust.ent.Soc. 27:193-7.

K.J. Houston, Larvae of Coelophora inaequalis (F.), Phrynocaria gratiosa (Mulsant) and P. astrolabiana (Weise) (Coleoptera: Coccinellidae) with notes on their relationships and prey records. J.Aust.ent.Soc. 27:199-211. All 4 larval instars of each ladybird is described with illustrations. They feed on aphids & coccids.

Yves Basset, A composite interception trap for sampling arthropods in tree canopies. J.Aust.ent.Soc. 27:213-9. A new design combining features of window and malaise traps for the study of fauna of rainforest canopies. Results of trap op. in SE Qld.

M.A. Heap, The pit-light, a new trap for soil-dwelling insects. J.Aust.ent.Soc. 27:239-40. Essentially a fluorescent tube mounted over a pitfall. Effective in excluding most Lepidoptera.

D.B. McCorquodale & I.D. Naumann, A new Aust. species of communal ground nesting wasp, in the genus Syliomena Shuckard (Sphecidae). J.Aust.ent.Soc. 27:221-31.

Eric Valli & Diane Summers, Honey hunters of Nopal. National Geographic 174(5) November 1988. Life and work of primitive honey gatherers. Usual high quality photography.

S. Exner, The Physiology of the Compound Eyes of Insects and Crustaceans. Transl. & annotated by R.C. Hardie, Springer Verlag, 1988. 180pp. \$138.50. New edition of classic monograph.

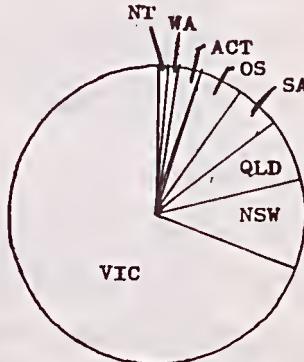
H. Kidd & D. Hartley (Eds.), Pesticide Index. Royal Society of Chemistry, Nov. 1988, 250 pp., \$A34.75. Chemical & common names, 800 active ingredients, 25,000 trade names, for pesticide identif.

Geoff Monteith & Chris Argent, Whiplash rove beetles. pp. 266-71 in Covacevich, J., Davio, P. & Pearn, J. (Eds.) Toxic Plants and Animals: A Guide for Australia. 504 pp. Qld. Museum. Vesicating beetles, Paederus, its lesions, toxin & treatment, 20 refs.

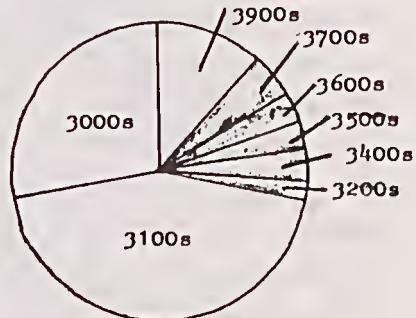
## GEOGRAPHICAL ANALYSIS OF MEMBERSHIP

The pie charts presented are derived from the Society's membership records which give postal addresses of members and thus a certain bias in the intra-state analysis.

State/Territory	N	%
Victoria	59	69
New South Wales	8	9
Queensland	6	7
South Australia	4	5
Australian Capital Territory	2	2
Northern Territory	1	1
Western Australia	1	1
Overseas	4	5
Total	85	100



Post-codes	Region	N	%
3000s	Melbourne west & north of Yarra	16	27
3100s	Melbourne south & east to Frankston, Dandenong	26	44
3200s	Geelong, Warrnambool, Colac	1	2
3400s	Sunbury, Castlemaine, Wimmera	2	3.5
3500s	Bendigo, Kerang, Mallee	2	3.5
3600s	Seymour, lower Goulburn, Shepparton	2	3.5
3700s	Lilydale, Mansfield, Wodonga	3	5
3900s	Mornington Peninsula	7	12
Total Melbourne/Peninsula		49	83
Total 'Country'		10	17
Total		59	100



Ian Faithfull

ENTOMOLOGICAL SOCIETY OF VICTORIA  
LIST OF MEMBERS NOVEMBER 1988

The last list of members appeared in the December 1986 issue. If your interests are wrongly listed or any other particulars are incorrect please let the Editor know in time for corrections to be printed in the first issue for 1989. The enclosed subscription renewal form can be used for this purpose.

The following abbreviations are used:

O Ordinary Member	A Associate Member
C Country Member	L Life Member
S Student Member	

Mr Sam Aquilina, Cudlee Creek PO, SA, 5232. C. Lepidopteraaaa  
Dr C.E. Aston, 561 South Negley Ave., 12 Pittsburgh, PA, 152322  
USA. C. Collection, numerical taxonomy, photography  
Australian Lepidoptera.  
Mr Andrew Atkins, 45 Caldwell Ave., Dudley, NSW, 2290. C. Butterflies (Hesperiidae, Lycaenidae), Life History, Conservation.  
Australasian Butterfly Company, PO Box 330, Lane Cove, NSW, 2066. C.  
Australian Entomological Supplies, PO Box 314 Miranda, NSW, 2228. (02) 524 4614. (Mr Alan Frazer). C.  
Mr Gordon Berg, 6 Venice St., Box Hill South, Vic. 3128. O.  
Mr Jason Beringer, 50 Bradley's Lane, Warrandyte, Vic. 3113. S.  
Mr Michael Braby, 21 Cromwell St., Eltham, Vic. 3095. O. Butterflies - ecology and taxonomy.  
Mrs Jean Brown, 4 McDonell Avenue, Cundletown, NSW, 2430. C.  
Lepidoptera, General.  
Mr Gordon & Mrs Joy Burns, 3 Inglis St., Mornington, Vic. 3931. O.  
A. Coleoptera: Buprestidae, Cerambycidae  
Mr John Burns, 274 Church St., Templestowe, Vic., 3106. O. Butterflies.  
Mr Peter Carwardine, 2a Victoria Rd., Malvern, Vic. 3144. O.  
Entomol. history & lit., moths, botany.  
Mr C.E. Chadwick, 9/2 Francis Rd., Artarmon, NSW, 2064. C.  
Ecology, History of ent. societies in NSW.  
Mr Ken Clark, 42 Bronhill Rd., Ringwood East, 3135. O. Butterfl.  
CNPPEC, 592 UAS2-PPA-88 Periodicals, PO Box 50, Beijing, Peoples Republic of China. C. (2 copies)  
Mr Robert and Mr Steve Condron, 96 Shannon Street, Box Hill North, Vic., 3129. O. A. Butterflies.  
Mr Mike and Mrs Pat Coupar, 143 Brackenbury St., Warrandyte, Vic., 3113. O. A. Lepidoptera, photography.  
Mr D.F. Crosby, 74 Gipps St., East Melbourne, Vic., 3002. O.  
Biology, Zoogeography, Butterflies, Conservation.  
Mr Greg Daniels, Department of Entomology, University of Queensland, St Lucia, Qld, 4067. C. Diptera, Lepidoptera, Coleoptera.  
Mr Fabian Douglas, 20 Rigg St., Rainbow, Vic. 3424. C. Ecology, Butterflies, Jewel Beetles.  
Mr Kelvyn Dunn, Flat 1 Island View Villas, Mungar Rd., Maryborough, Qld., 4650. A. Butterflies.

Mr Laurie Dunn, 16 Grace Ave., Dandenong, Vic., 3175. A. Butterflies.

Mr Ian Faithfull, C/O 193 Rathmines Rd., East Hawthorn, Vic., 3123. O. Coleoptera, Scarabaeidae, Butterflies, General

Mr Tony Faithfull, 10 Alsace St., Brunswick East, Vic., 3057. O.

Mr W.J. & Mrs. A.R. Faithfull, RMB 3263 Mansfield, Vic., 3722.0. A.

Mr Ross & Mrs Julie Field, 51 Sandells Rd., Tocoma, Vic., 3160. O, A. Biological control, Acarology, Ecology, Lepidoptera (RF)

Mr R.H. Fisher, 21 Seaview Rd., Lynton, SA, 5062. C. Butterflies, Biology, Photography and illustration.

Mr Ralph Gordon, PO Box 4297 Melbourne University, Parkville, Vic., 3052. O. Hymenoptera.

Mr Tom Greaves, 71 Coranderrk St., Reid, Canberra City, ACT, 2601. L. Chemical control. Ecology.

Mrs Norma Harrison, PO Box 110, Stanhope, Vic., 3623. O.

Mr Keith Hateley, RMB 382, Nhill, Vic., 3418. L. Coleoptera, Buprestidae, Diptera.

Ms Val Himmelrich, 27 Glenvalley Cres., Seville East, 3139. O.

Mr David and Mrs Joyce Holmes, 5 Overbay Rd., Dromana, Vic., 3936.0. A. World Lepidoptera.

Mr Mark Hunting, 29 Paloma St., South Oakleigh, Vic., 3167. O. Butterflies.

Mrs Dorothy Johnson, 23 Bembridge Ave., Olivers Hill, Frankston, Vic., 3199. O. Coleoptera.

Karger Libri, Senckenbergsche Bibliothek, Zeitschriftenabteil/ D.F.G., Bockenheimler Landstrasse 134-138 D6000, Frankfurt, Main Germany. C.

Mr Peter Kelly, "Calomela", Dockerys Road, Tallarook, Vic., 3659.0. Coleoptora: Paropsini

Mrs Mary Le Souëf, Eastbourne Grange, 1 Wyuna St., Rosebud, Vic., 3939. L.

Mr D.F. King, 8 Traum Street, Portarlington, Vic., 3223. O. Spiders, Conservation, Ecology.

Library, Museums and Art Galleries of the Northern Territory, PO Box 4646, Darwin, NT., 5796. C.

Mr Shane McEvey, Lab. Biol. Génétique Evolutives, CNRS, 91198 Gif-sur-Yvette Cedex, France. C. Drosophilidae, Lepidoptera.

Mr Ray Manskie, 139 Queen Court, Maryborough, Qld, 4650. C. Lepidoptera: Lycaonidae.

Mr Anthony R. Martin, 6 Matthews Crt., East Brighton, Vic., 3187 O.

Mr Rainer Mathews, 10 John St., East Brunswick, 3057. S. Everything.

Mr David McLaren, 5 Toolangi Rd., Alphington, Vic. 3078. O.

Mr Graham Milledge, 56 Wilgah St., East St.Kilda, Vic. 3182. O. Taxonomy of Mantodea & Phasmatodea.

Dr G.B. Monteith, Department of Entomology, Queensland Museum, PO Box 300, South Brisbane, Qld., 4101. C. Biology, Soil & litter arthropods, Taxonomy of Hemiptera, Zoogeography.

Mr Mike D. Moore, Box 674 Waikerie, SA, 5330. C. Butterflies.

Mr D.E.A.(Tony) Morton, 32 Chatsworth Rd., Prahran, 3181. O. Lepidoptera: Hesperiidae, Lycaenidae, Indo-Aust.region.

Mr Max S. Moulds, 16 Park Avenue, Waitara, NSW, 2077. C. Cicadidae, Sphingidae, Butterflies.

Dr Arturs Neboiss, Department of Entomology, Museum of Victoria, 71 Victoria Cres., Abbotsford, Vic., 3067. O. Trichoptera, Plecoptera, Coleoptera: Elateridae, Cupedidae, Photography & Illustration.

Dr T.R. New, Zoology Department, LaTrobe University, Bundoora, Vic, 3083. O. Ecology, Systematic entomology, Neuroptera, Psocoptera.

Dr Ebbe S. Nielsen, Division of Entomology, CSIRO, GPO Box 1700, Canberra, ACT, 2601. O. Lepidoptera: primitivo moths.

Dr. A.B. Owen, Parkville Adolescent Unit, Private Bag No.8, Parkville, Vic., 3052. O...

Mr Marcus Pickett, PO Box 183, Lobethal, SA, 5241. C. Plant Sciences Library, Victorian Plant Research Institute, Swan Street, Burnley, Vic., 3121. O.

Mr John Reid, 3 Barnie Road, Heathmont, Vic., 3135. O. Conservation.

Ringwood Field Naturalists Club, PO Box 418, Ringwood, Vic., 3134. O.

Mr Otto Rogge, 38 Munro St., East Kew, Vic., 3102. O. Photography.

Miss Jennifer Ross, 81 Maltravers Rd., East Ivanhoe, Vic., 3079. O. Butterflies, Beetles, Photography of insects.

Mr A.M. (Mark) Smith, 7 Braemar St., North Box Hill, 3129. O. Agric. entomol., Field crop pests, Biol. control, Biology, photography and Illustration.

Mr Stephen Smith, 3 Avocet Crt., Werribee, Vic., 3030. O. Buprestidae, Cerambycidae.

Dr Roger Steer, 67 Boundary St., Kerang, Vic., 3579. C. Moths.

Mr. David & Mrs Nola Stewart, PO Box 67, West Rosebud, Vic., 3940. O.A.

Mr Allen Sundholm, 45/80 Elizabeth Bay Rd., Elizabeth Bay, NSW, 2011. C. Coleoptera, mainly Buprestidae, Macrophotog.

Mr J.R. Turner, 117 Derby Street, Penrith, NSW, 2750. C. Beetles Butterflies.

Mr Ray Vagi, 5/15 Nunan Pl., Reservoir, 3073. O. Butterflies.

Mr Peter Valentine, Department of Geography, James Cook University, Townsville, Qld, 4811. C. Butterflies, Biogeography, Conservation.

Mr B.H. Vardy, Maiden Gully, Vic., 3550. C. Lepidoptera.

Mr Ken Walker, Museum of Victoria, 71 Victoria Cres., Abbotsford, Vic., 3067. O. Boes, Spiders..

Mr Jak & Mrs Wortz, 1041 Plonty Rd., Kingsbury, Vic., 3083. O.A.

Dr Clyde H. Wild, Lot 13 Repeater Station Rd., Springbrook, Qld., 4213. O. Beetles, Moths, Biological control of woods..

Dr Peter Williams, 72 Summerhill Rd., Glen Iris, Vic. 3146. O.. Coleoptera, Lepidoptera, esp. pests of stored products

Mr David Williamson, 1/1 Fleetwood, Cres., Frankston, Vic. 3199. O.

Mr W.F. Wilson, 1 Lakeside Drive, Emerald, Vic., 3782. O. Lepidoptera.

Mr David Yeates, Department of Agriculture, Baron Hay Court, South Perth, WA, 6151. Bombyliidae. C.

Dr Alan Yen, Museum of Victoria, 71 Victoria Cres., Abbotsford, Vic., 3067.

- 5 DEC 1988

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Entomological Society of Queensland, G. Daniels, Hon. Secretary, Entomology Department, University of Queensland, St. Lucia, Qld., 4067.  
Entomological Society (NSW), c/o Mr J. A. MacDonald, Biological & Chemical Research Institute, RMB No. 10 Rydalmore, NSW, 2116.  
Zoology Society of NSW, Entomology Division, Mr R. Mulder, PO Box 121, Helensburg, NSW, 2508.  
Victorian National Parks Association, c/o Environment Centre, 247 Flinders Lane, Melbourne, Vic., 3000.  
Ian Clunies-Ross Memorial Foundation, 191 Royal Parade, Parkville, Vic. 3052.

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The Society welcomes contributions of articles, papers or notes pertaining to any aspect of entomology for publication in the News Bulletin. Contributions are not restricted to members but are invited from all who have an interest. Material submitted should be responsible and original. Statements and opinions expressed are the responsibility of the respective authors and do not necessarily reflect the policies of the Society.

It is of great assistance if contributions are typed on paper of A4 (International Quarto) size, one and a half spaced with triple spacing between paragraphs and a margin of 3 cm.

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The Victorian Entomologist continues to be produced at the Standards Association of Australia Printery, Clunies Ross House, 191 Royal Parade, Parkville. Thanks to Irma for doing the work.

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## OFFICE BEARERS

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Excursions Secretary	- Peter Carwardine, 2a Victoria Road, Malvern, 3144. 211 8958 (AH)
Past President	- Joy Burns
Councillors	- Michael Braby, David Crosby, Julie Field, Peter Kelly

## DIARY OF COMING EVENTS

Friday 9 December, 8 pm -	EXTRAORDINARY GENERAL MEETING re Constitution plus ORDINARY GENERAL MEETING & MEMBERS' NIGHT. Followed by supper in the Sciences Club costing \$3 per head. Bring exhibits.
Sunday 11 December, 10 am -	EXCURSION TO GRESSWELL FOREST AND PLENTY GORGE. See page 113 for details.
20 January	- Council Meeting
17 February	- General Meeting - Gordon Berg
17 March	- Council Meeting
21 April	- General Meeting - Members' short talks

Scientific names contained in this document are not intended for permanent scientific record, and are not published for the purposes of nomenclature within the meaning of the International Code of Zoological Nomenclature, Article 8(b). Contributions are not refereed, and authors alone are responsible for the views expressed.

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